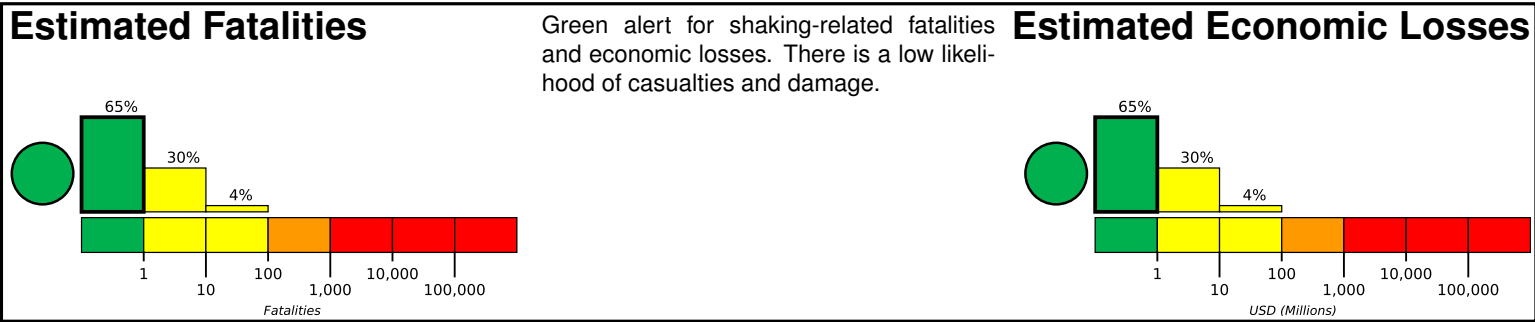


M 5.4, Libertador General Bernardo O'Higgins, Chile

Origin Time: 2023-06-15 19:07:34 UTC (Thu 15:07:34 local)
Location: 34.5251° S 71.8820° W Depth: 41.8 km

Created: 3 weeks, 6 days after earthquake

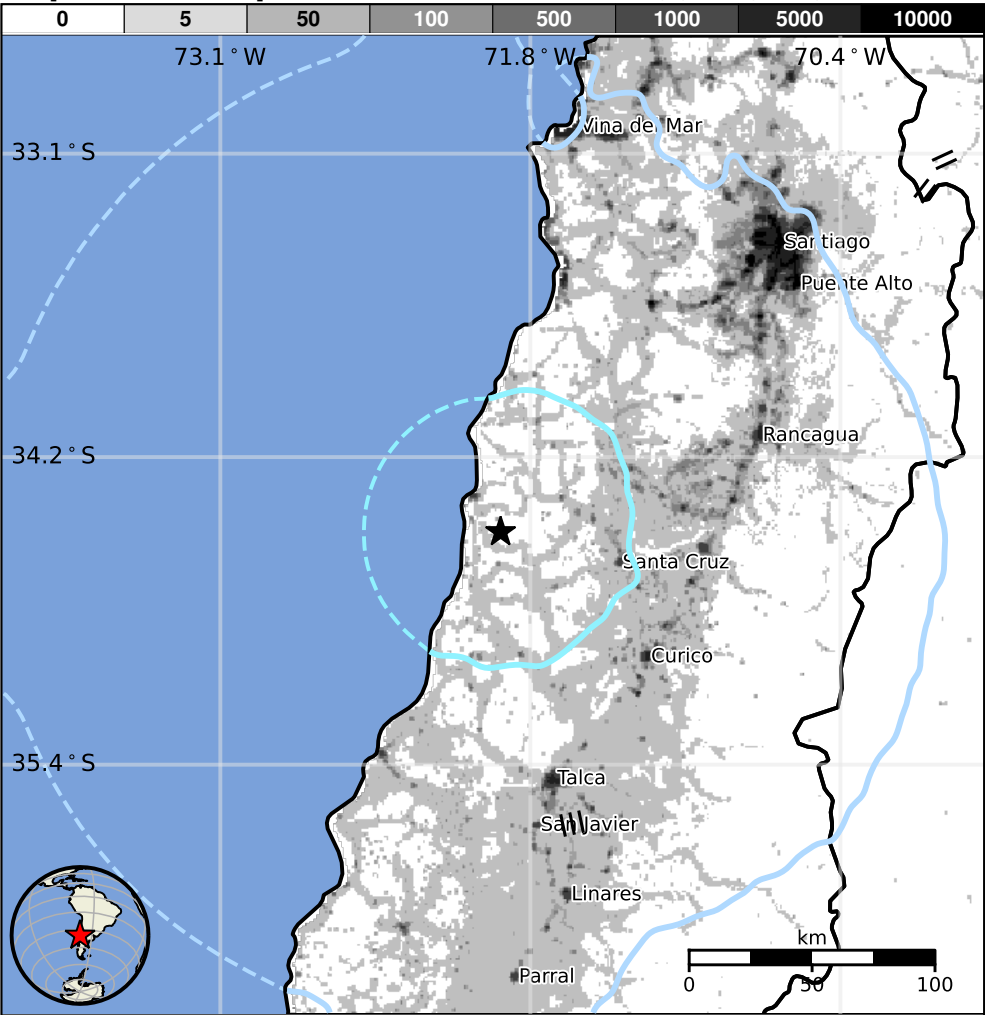


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	11,398k	193k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1985-01-26	342	5.9	VIII(38k)	6
1971-07-09	230	7.8	VIII(755k)	83
1985-03-03	154	7.9	VII(5,319k)	177

Recent earthquakes in this area have caused secondary hazards such as liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Santa Cruz	33k
III	San Vicente de Tagua Tagua	30k
III	San Vicente	23k
III	Teno	7k
III	Rauco	9k
III	Molina	29k
III	Rancagua	213k
III	Talca	197k
III	Puente Alto	510k
III	Santiago	4,837k
II	Valparaiso	282k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
<http://earthquake.usgs.gov/data/pager/>

bold cities appear on map.

(k = x1000)